

# United States Patent and Trademark Office

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APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,056	-	10/07/2003	Aleksandar Kojic	11403/49 7846	
26646	7590	10/18/2005		EXAM	INER
KENYON	& KENY	ON .	SOLIS, E	SOLIS, ERICK R	
ONE BRO. NEW YOR		0004	ART UNIT	PAPER NUMBER	
				3747	
				DATE MAILED: 10/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.		Application No.	Applicant(s)					
Erick R. Solis   3747		10/681,056	KOJIC ET AL.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Eathering the may be a validate under the provisions of 3 CPR 1.18(a), in no event, however, may any be the timely filled with the correspondence of 3 CPR 1.18(a), in no event, however, may any be the timely filled with 10 control of the correspondence of 3 CPR 1.18(a), in no event, however, may any be the timely filled of this communication.  Failur to replicate the displainant. See 27 CPR 1.78(b).  Status  1) ☑ Responsive to communication(s) filed on 28 August 2005.  2a) ☐ This action is FINAL.  2b) ☑ This action is FINAL.  2b) ☑ This action is filled.  2b) ☑ This action is filled.  2c) ☑ Claim(s) ☐ is/are pending in the application.  4a) ☐ Claim(s) ☐ is/are pending in the application.  4a) ☐ Claim(s) ☐ is/are allowed.  6) ☑ Claim(s) ☐ is/are allowed.  6) ☑ Claim(s) ☐ is/are allowed.  6) ☑ Claim(s) ☐ is/are allowed.  7c) ☐ Claim(s) ☐ is/are allowed.  7c) ☐ The drawing(s) filed on ☐ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on ☐ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Application Papers  9) ☐ The drawing(s) filed on ☐ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Application Papers  9) ☐ The drawing(s) filed on ☐ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  10) ☐ The drawing(s) filed on ☐ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  11) ☐ The drawing(s) filed on ☐ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  12) ☐ All b) ☐ objected to by the Examiner. Note the altached Office Action or form PTO-152	Office Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - after SIX (9) MONTHS from the mailing date of this communication. If NO period for payls specifies down, the maximus databusy period will appear and will appear by the limby find and the SIX (9) MONTHS from the mailing date of this communication. If NO period for payls specifies down, the maximus databusy period will appear and will appear (30) MONTHS from the mailing date of this communication. If NO period for payls specifies down, the maximus databusy period will appear and and appear and and appear and and appear and a		Erick R. Solis	3747					
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extraination of time may be available under the provided of 37 CPR 1.130(, in no event, howers, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the six (6) MONTHS from the mailing date of this communication of the provided of the pro								
1)⊠ Responsive to communication(s) filed on @8 August 2005.  2a)□ This action is FINAL. 2b)⊠ This action is non-final.  3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)□ Claim(s) is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)□ Claim(s) is/are allowed.  6)☒ Claim(s) is/are allowed.  6)☒ Claim(s) si/are objected to.  7)□ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)□ The specification is objected to by the Examiner.  10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)□ All b)□ Some * c)□ None of:  1.□ Certified copies of the priority documents have been received in Application No  3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)□ Notice of References Clied (PTO-852)  2)□ Notice of Drassperson's Patent Drawing Review (PTO-948)  3)□ Notice of Informal Patent Application (PTO-152)  5)□ Notice of Informal Patent Application (PTO-152)  6)□ Other:	<ul> <li>WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any</li> </ul>							
2a)  This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed. 6) Claim(s) 1-3.5-17 and 20-26 is/are rejected. 71 Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) cocepted or b) objected to by the Examiner. Application Papers  9) The prawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1) Notice of Pratsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SD/80) 9) Notice of Informal Patent Application (PTO-152) 6) Other: 9) Notice of Ormalsperson's Patent Drawing Review (PTO-948) 1) Notice of Informal Patent Application (PTO-152) 9) Notice of Ormalsperson's Patent Drawing Review (PTO-948) 1) Notice of Ormalsperson's Patent Drawing Review (PTO-948) 1) Notic	Status							
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  Reparation of the priority documents have been received.	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
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Application/Control Number: 10/681,056

Art Unit: 3747

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3,5,6,15,16,20 and 22-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Bailey (US Patent 5067458). See the abstract. See also col. 5, lines 40+

#### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3,5-8,10-17,20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Agama et al. in view of Bailey. Agama et al applies as above, but does not appear to teach how high a temperature the glow plugs are heated to, and although Agama does teach that it is known to enrichen the fuel mixture to aid in starting ignition in a pre-chamber (see col. 1, line57 col. 2, line8), Agama does not appear to enrichen the mixture. Bailey teaches at

Application/Control Number: 10/681,056 Page 3

Art Unit: 3747

col. 5, lines 40+ that one may either enrichen only the pre-combustion chamber or the entire mixture including the main combustion chamber. It would have been obvious to one of ordinary skill in the art to have enrichened the air-fuel mixture in Agama et al's pre-chamber since this would have been an alternate way of aiding the self-ignition within the pre-chamber, especially during starting, as taught by Bailey. In order to enrichen the mixture it would only be necessary to enrichen the main combustion mixture since part of this mixture is communicated to the pre-chamber. Furthermore, the degree of enrichment and temperature of the glow plugs are considered to be obvious matters of design choice. Furthermore, the use of additives to aid in initiating the combustion is also known and considered an alternate equivalent way of aiding in the initiation of combustion in the pre-chamber. Regarding the use of an electronic actuator Agama et al teaches being able to vary piston speed in response to speed and load of the engine. If not inherent then it certainly would have been obvious to use an electronic controller for carrying out the variable response (see col. 3, lines 44-53.)

Claims 9 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Agama in view of Bailey as in claims 3 and 16, above and further in view of either of Merritt (US Patent No. 4898126) or Cherry (UAS Patent No. 5109817). The combination of Agama et al with Bailey does not appear to teach a catalyst for aiding in initiating auto-ignition. Merritt teaches that it is known to coat the wall of a combustion chamber to aid in igniton. Cherry teaches applying a catalytic sleeve on a pre-chamber (see Fig.1, item S). It would have been obvious to coat the walls of Agama et al's pre-chamber with a catalyst since as taught by either of Merritt or Cherry it is well known to use a catalyst to aid in initiating ignition.

Art Unit: 3747

## Response to Arguments

6. Applicant's arguments with respect to claims 1-3,5-17 and 20-25 have been considered but are most in view of the new ground(s) of rejection. Specifically note that the Bailey reference teaches at col. 5, lines 40+ to enrichen the mixture of at least the pre-combustion chamber. It should also be noted that it is also well known to enrichen the mixture to at least an equivalence ratio of 1.1.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erick R. Solis whose telephone number is (571) 272-4853. The examiner can normally be reached on Monday-Thursday.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-3700.

Erick R Solis
Primary Examiner
Art Unit 3747

ers October 13, 2005